UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/521,971	09/26/2005	David T Scadden	61925US(51588)	61925US(51588) 1957	
21874 EDWARDS A	7590 05/30/2007 NGELL PALMER & DOD	ACE LI D	EXAMINER		
P.O. BOX 558		OE LLF	BELYAVSKYI, MICHAIL A		
BOSTON, MA	02205		ART UNIT PAPER NUMBER		
			1644		
				<u></u>	
			MAIL DATE	DELIVERY MODE	
			05/30/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)					
Office A - 4ion Communication	10/521,971	SCADDEN ET AL.					
Office Action Summary	Examiner	Art Unit					
	Michail A. Belyavskyi	1644					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ad	dress				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin viil apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this co D (35 U.S.C. § 133).	,				
Status							
1)⊠ Responsive to communication(s) filed on 21 Ja	nuan/ 2005						
	action is non-final.						
·=	• • • • • • • • • • • • • • • • • • •						
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims	,						
4)⊠ Claim(s) <u>1-40</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6) Claim(s) is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) 1-40 are subject to restriction and/or e	election requirement						
	nection requirement.						
Application Papers							
9)☐ The specification is objected to by the Examiner	r.						
10)☐ The drawing(s) filed on is/are: a)☐ acce	epted or b) \square objected to by the ${ t E}$	Examiner.					
Applicant may not request that any objection to the o	drawing(s) be held in abeyance. See	37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correcti	on is required if the drawing(s) is obj	ected to. See 37 CF	R 1.121(d).				
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PT	O-152.				
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).					
1. Certified copies of the priority documents	s have been received.						
2. Certified copies of the priority documents		on No					
3. Copies of the certified copies of the priori	• •		Stage				
application from the International Bureau	(PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of	of the certified copies not receive	d.					
Attachment(s)							
Notice of References Cited (PTO-892)	4) Interview Summary						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal Pa						
Paper No(s)/Mail Date	6) Other:	atent Application					

Page 2

Application/Control Number: 10/521,971

Art Unit: 1644

DETAILED ACTION

1. Applicant's amendment, filed 01/21/05 is acknowledged.

Claims 1- 40 are pending.

Restriction

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in response to this action, to elect a single invention to which the claims must be restricted:

- I. Claims 1-8 are drawn to a method for preparing a population of cell for enhancing the growth or maintenance of hematopoietic progenitor cells
- II. Claims 9-11 are drawn to a method for enhancing the growth and maintenance of hematopoietic progenitor cells comprising contacting hematopoietic progenitor cells with cell expressing a PTH/PTHrP receptor.
- III. Claims 12-22 are drawn to a method for enhancing the growth and maintenance of hematopoietic progenitor cells and enhancing mobilization of hematopoietic progenitor cells in a subject each comprising administering to a subject an agent that activates a PTH/PTHrP receptor.
- IV. Claims 23-24 are drawn to a method for preparing hematopoietic progenitor cell.
- V. Claim 25 is drawn to an isolated population of stromal cells treated with PTH.
- VI. Claims 26-28 are drawn to a method for stimulating immune cell expansion, comprising contacting immune cells with cell expressing a PTH/PTHrP receptor.

Art Unit: 1644

VII. Claims 29-37 are drawn to a method for stimulating immune cell expansion in a subject, comprising administering to a subject an agent that activates a PTH/PTHrP receptor.

VIII. Claims 38-40 are drawn to a method for enhancing hematopoietic cell growth in vitro, comprising contacting said cells with a population of cell enriched for osteoblasts.

3. The inventions listed as Groups I-VIII do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

As was also found in the International Search Report, the Invention of Group I was found to have no special technical feature that defined the contribution over the prior art of WO 2004011484.

WO' 484 teaches a method for preparation a population of cell for enhancing the growth of hematopoietic progenitor cells.

Since Applicant's Inventions do not contribute a special technical feature when viewed over the prior art they do not have a single general inventive concept and so lack unity of invention.

- 4. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 C.F.R. § 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a diligently-filed petition under 37 C.F.R. § 1.48(b) and by the fee required under 37 C.F.R. § 1.17(h).
- 5. Applicant is advised that the response to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed.

Art Unit: 1644

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michail Belyavskyi whose telephone number is 571/272-0840 The examiner can normally be reached Monday through Friday from 9:00 AM to 5:30 PM. A message may be left on the examiner's voice mail service. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina Chan can be reached on 571/272-0841.

The fax number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MICHAIL BELYAVSKYI, PH.D. PATENT EXAMINER

5/25/07